



# UTD-500

## LED Waterproof Power Supply

- Protection: short circuit/over load/over voltage/over temperature
- IP67 design for indoor or outdoor installation
- It can be used in dry, wet and rainy environment
- Cooling by free air, high reliability
- 100% full load burn-in test
- Suitable for internal lights application for 1' / 3' / 5'
- Widely used in LED lighting and IT equipment
- Compliance to worldwide safety regulation for led lightings.



175~277VAC

PF>0.96

THD<5%

CE SELV IP67



### Specification

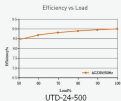
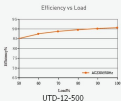
Model	UTD-12-500		UTD-24-500	
OUTPUT	Output voltage	12VDC	24VDC	
	Output voltage range	12VDC±0.5VDC	24VDC±0.5VDC	
	Output current	Max 41.7A	Max 20.8A	
	Output power	Max 500W		
	Output power range	0-500W		
	Ripple & Noise	≤120mV	≤240mV	
	Linear Regulation	±1%		
	Load Regulation	±1%		
INPUT	Start-up Time (Typ)	450ms/230VAC	500ms/115VAC	
	Hold Up Time(Typ)	200ms/230VAC	200ms/115VAC	
	Input voltage	175-265Vac or 108-130Vac		
	Frequency	50/60Hz		
	Input current	4.2A/230Vac or 7.5A/115Vac		
	Power factor	PF>0.9		
	No-load power consumption	≤3W		
	Efficiency (Typ.)	91%	98%	
	Inrush current(Typ.)	Cold start 70A at 230Vac		
	Control surge capability	L, N-DIV L, N-PE 4KV		
Leakage current	Max. 0.5mA			
ENVIRONMENT	Working temperature	ta: -30°C - 50°C sc: 60°C		
	Working humidity	20 - 95%RH, condensing(Waterproof)		
	Storage temp., humidity	-60°C - 80°C, 10-95%RH		
PROTECTION	Overtemperature	Protection type: Turn off the output voltage, after the temperature drops, re-energize it restores.		
	Over load protection	Shut down the output when current load ≥110% - 150%, auto recovers.		
	Short circuit protection	Protection type: It can be automatically restored after the fault is eliminated.		
SAFETY & EMC	Withstand voltage	i/P-G/P-2750Vac		
	Isolation resistance	i/P-G/P: 100MΩ/500VDC/25°C/70%RH		
	Safety standards	IEC/EN 1347, IEC/EN 60950, IP67		
	EMC Test Standards	EN55015: 2012, EN1547: 2009; EN61000-3-2:2014; EN61000-3-3:2013		
Reliability and Quality Control	Impact aging	100% of the product is fully loaded and impacted for 4 hours under an environment of at least 40°C±5°C		
	Component derating	Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value		
NOTE	<ol style="list-style-type: none"> <li>All parameters not specifically mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.</li> <li>Ripple and noise test method: connect 0.1μF and 4.7μF capacitors in parallel at the terminal, and measure under 20MHz bandwidth.</li> <li>Ensure that the power supply is used under the rated parameters and environment.</li> </ol>			

## Dimensions

Unit:mm



## Relationship diagrams



## Packaging Information

DIMENSION	240x92x37mm(LxWxH)
PACKING	335x122x92mm(LxWxH)
CARTON QUANTITY	10PCS
CARTON SIZE	545x350x145mm(LxWxH)
WEIGHT	1750g±10g/PCS

## Temperature load curve

